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Total Evaporation (in millimeters)

Palic 179, Vrbas 168, Rimski Sancevi 181, Vrsac 249.

Temperatures (centigrade)

Average for the month: Palic 23.7, Sombor 24.1, Kikinda 24.3, Vrbas 24.8, Zrenjanin 24.9, Rimski Sancevi 24.9, Sremska Mitrovica 24.0, Surcin 24.9, Vrsac 24.4.

Maximum temperature, varying from 39 to 41 degrees, was on 6 July. Minimum temperature, varying from 10 to 12 degrees, was predominant at the end of the month.

Soil temperatures averaged: on the surface, 30 degrees; at 5 centimeters, 29 to 30 degrees; at 10 centimeters, 28 to 29 degrees; at 20 centimeters, 26 to 27 degrees. Soil temperatures at Rimski Sancevi averaged: at 30 centimeters, 25.6 degrees; at 50 centimeters, 24.5 degrees; at 1 meter, 20.3 degrees; the surface of the soil reached a temperature of 56 degrees.

Hours of Sunlight

Palic 306, Backi Petrovac 332, Rimski Sancevi 320, Surcin 380, or about 70 percent of the possible maximum (471 hours).

Actinic power of solar illumination at Rimski Sancevi: 17,503 calorigrams per square centimeter, or a daily average of 565 calorigrams per square centimeter.

Relative Humidity

Average for the month, 57.6 percent; average at 1400 hours, 43.5 percent.

Sky Cover

Average total, three fourths.

Wind

Monthly average for all winds, 1.5, according to the Beaufort scale. Prevailing winds were from the northwest, as high as Beaufort 8.

Atmospheric Pressure at Rimski Sancevi

Monthly average, 753 millimeters; highest, 756.7 millimeters on 19 July; lowest, 748.8 millimeters on 15 July.

Conclusions

1. Meteorological

Total precipitation was up to the average over many years. Most of the precipitation fell in two rains, the lighter in the first 10 days of the month, the heavier in the middle of the month.

The average temperature showed a rise of almost 2 degrees above the normal temperature for July. Fairly severe hot spells came in the first of the month instead of at the end, as usually happens.

Light hail was reported in the vicinity of Backi Petrovac, Rimski Sancevi, Coka, and Senta.

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Storms, severe in some places, passed from the west to the east on 15 July.

2. Agricultural

Although the precipitation reached the average of many years, it did not decrease the ill effects of the 2-month drought to any extent. Agricultural crops and fruit were refreshed by the precipitation but were not basically improved.

The dry and rather hot weather at the beginning of the month developed the tassels on the corn prematurely so that the kernels will not mature fully.

Industrial crop (sugar beet, hemp, sunflower) and fruit yields will be moderate this year, and considerably inferior in some places.

Vineyards are relatively good. Peronospora did not inflict any serious damage this year. In many places, leaves were burned, and grapes and vines were drying up during the heat the first of the month.

Hail inflicted local damage chiefly to vineyards, while the storm in the middle of the month damaged fruit. Insects inflicted local damage, chiefly to agricultural crops.

AUGUST

The Agrometeorological Center in Novi Sad has issued the following report on weather conditions in the Vojvodina in August 1950:

Precipitation (in millimeters)

Upper Backa: Palic 5, Orom 12, Senta 6, Tornjos 4, Bajmok 6, Stara Moravica 7, Backa Topola 89, Backo Petrovo Selo 17, Becej 19, Crvenka 16, Mali Stapar 9.

Lower Backa: Rimski Sancevi 19, Celavero 41, Backa Palanka 23, Backi Petrovac 21, Vrbas 21, Kamendin 19, Srbobran 23, Biserno Ostrvo 23, Gospodjinci 16, Zabalj 24, Sajkas 32, Titel 23.

Western Backa: Stanisic 31, Backi Brez 5, Backi Monostor 5, Sombor 5, Apatin 15, Senta 31, Bogojevo 35, Odzaci 29, Plavna 33.

Northern Banat: Novi Knezevac 4, Coka 5, Kikinda 14, Rusko Selo 29, Basaid 27, Volosinovo 26, Itebej 9, Zrenjanin 23.

Southern Banat: Bela Crkva 15, Vrsac 9, Hajducica 15, Konak 21, Secanj 59, Tomasevac 17, Banatsko Rankovicevo 12, Gaj 7, Pancevo 14, Padina 20, Besni Fok 15, Oporo 17.

Srem: Morovic 15, Sid 20, Erdevik 17, Calma 10, Sremska Mitrovica 27, Ruma 21, Irig 23, Iriski Venac 26, Sremska Kamenica 26, Petrovaradin 27, Sremski Karlovci 48, Gladnos 28, Stara Pazova 12, Hrtkovci 25, Ogar 16, Mihaljevci 11, Ugrinovci 10, Surcin 25, Asanja 13, Boljevci 23.

Total Evaporation (in millimeters)

Palic 167, Coka 147, Biserno Ostrvo 143, Srbobran 131, Vrbas 162, Rimski Pancevi 169, Vrsac 299.

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Temperatures (centigrade)

Average for the month: Palic 22.8, Sombor 22.7, Kikinda 22.9, Vrbas 23.6, Zrenjanin 23.6, Rimski Sancevi 23.4, Sremska Mitrovica 22.5, Surcin 23.7, Vrsac 23.7.

Maximum temperature, varying from 38 to 39 degrees, was on 28 August. Minimum temperature, varying between 9 to 10 degrees, was on 8 August.

Soil temperatures averaged: on the surface, 27 to 28 degrees; at 5 centimeters, 27 to 28 degrees; at 10 centimeters, 26 to 27 degrees; at 20 centimeters, 25 to 26 degrees. Soil temperatures at Rimski Sancevi averaged: at 30 centimeters, 24.6 degrees; at 50 centimeters, 24 degrees; at 1 meter, 24.7 degrees.

Hours of Sunlight

Palic 299, Backi Petrovac 330, Rimski Sancevi 333, Surcin 365, or about 75 percent of the possible maximum.

Actinic power of solar illumination: 15,687 calorigrams per square centimeter at Rimski Sancevi, or a daily average of 506 calorigrams per square centimeter.

Relative Humidity

Average for month, 56.8 percent; average at 1400 hours, 39.3 percent.

Sky Cover

Average total, two sixths.

Wind

Monthly average for all winds, Beaufort 1.4. Prevailing winds were from the northwest.

Atmospheric Pressure at Rimski Sancevi

Monthly average, 752.9 millimeters; highest, 759.5 on 22 August; lowest, 745.6 on 3 August.

Conclusions

1. Meteorological

Total precipitation was much lower than the average over many years, especially in the northern section. This precipitation took place in the middle of the first third of the month, and the end of the second third of the month.

Evaporation was quite high in contrast to the precipitation. Ten times as much water was evaporated in some places as the total rainfall.

The average temperature showed a rise of about 2 degrees above the normal temperature for August. The highest temperatures were at the end of the month.

No hail or storms were reported by any station.

2. Agricultural

The precipitation, which was only 30 percent of the normal for this month, the scanty precipitation of preceding months, and the high temperatures have resulted in the premature ripening of all crops.

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Much of the corn was ready for harvest at the end of the month, to the detriment of the cob and kernel, which had not filled out completely.

Sunflowers and industrial hemp were harvested before maturing. Sugar beets and beets for fodder are rapidly approaching maturity and not promising a good yield.

Grapes are prematurely ripe, to the detriment of their yield.

Vegetables which have been irrigated have given a good yield. Others have been very poor.

Autumn harvests of feed crops cannot be counted on at all.

Deep plowing for the fall sowing was very difficult, because of the hardness of the soil, especially where the plowing was not done mechanically.

SEPTEMBER

The Agrometeorological Center in Novi Sad has issued the following report on weather conditions in the Vojvodina in September 1950:

Precipitation (in millimeters)

Upper Backa: Palic 42, Kanjiza 58, Orom 55, Senta 51, Tornjos 28, Stara Moravica 31, Ada 42, Backo Petrovo Selo 47, Becej 48, Mali Stapar 71, Crvenka 36.

Lower Backa: Rimski Pancevi 35, Backa Palanka 29, Backi Petrovac 38, Vrbas 38, Zmajev 56, Kamendin 44, Srbobran 43, Biserno Ostrvo 40, Gospodjinci 35, Zabalj 21, Sajkas 20, Gardinovci 22, Titel 20, Kovilj 51.

Western Backa: Backi Breg 53, Bezdan 28, Sombor 53, Odzaci 39, Plavna 32.

Northern Banat: Novi Knezevac 56, Coka 43, Kikinda 29, Rusko Selo 15, Basaid 28, Volosinovo 35, Zrenjanin 28.

Southern Banat: Bela Crkva 29, Vrsac 23, Hajducica 35, Konak 21, Secanj 24, Tomasevac 26, Banatsko Rankovicevo 22, Gaj 21, Pancevo 29, Padina 22, Besni Fok 21, Opovo 20.

Srem: Morovic 12, Sid 24, Bosut 12, Calma 16, Banostor 27, Sremska Mitrovica 20, Besenovo 19, Irig 28, Sremska Kamenica 60, Petrovaradin 32, Sremski Karlovci 24, Gladnos 30, Stara Pazova 25, Jarak 33, Hrtkovci 30, Ogar 29, Mihaljevci 24, Ugrinovci 23, Dobanovci 24, Petovcic 10, Boljevci 23.

Total Evaporation (in millimeters)

Palic 96, Vrbas 129, Rimski Sancevi 115, Vrsac 243.

Temperatures (centigrade)

Average for the month: Palic 17.6, Sombor 17.6, Kikinda 18.1, Vrbas 18.3, Zrenjanin 18.8, Rimski Sancevi 18.3, Sremska Mitrovica 18.2, Surcin 19.2, Vrsac 19.3.

Maximum temperature, varying from 33 to 35 degrees, was on 12 September.
Minimum temperature, varying from 4 to 6 degrees, was on 23 September.

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Soil temperatures averaged: on the surface, 21 degrees; at 5 centimeters, 21 to 22 degrees; at 10 centimeters, 21 to 22 degrees; at 20 centimeters, 20 to 21 degrees. Soil temperatures at Rimski Sancevo averaged: at 30 centimeters, 21 degrees; at 50 centimeters, 21.1 degrees; at 1 meter 19.9 degrees.

Hours of Sunlight

Palic 184, Rimski Sancevi 228, Backi Petrovac 220, Surcin 263, or about 60 percent of the possible maximum.

Actinic power of solar illumination: 10,139 calorigrams per square centimeter at Rimski Sancevi, or a daily average of 338 calorigrams per square centimeter.

Relative Humidity

Average for the month, 62.2 percent; average at 1400 hours, 45.9 percent.

Sky Cover

Average total, four eights.

Wind

Monthly average for all winds was Beaufort 1.6. Prevailing winds were from the northwest and southeast.

Atmospheric Pressure at Rimski Sancevi

Monthly average, 745.2 millimeters; highest, 760.2 millimeters on 23 September; lowest, 745 millimeters on 1 September.

Conclusions

1. Meteorological

Precipitation was slight, especially in the southern sections. Only one rainfall, in the middle of the month, was more than 10 millimeters.

The average temperature showed an increase over the normal temperature for September.

Evaporation was considerably higher than precipitation.

Stations did not report any major inclemencies of weather.

2. Agricultural

The low precipitation and high temperatures had an adverse effect on the plowing for the sowing and the fall plowing. The planting of winter crops (barley, oats, and other feed crops) was slow and germination uneven.

The predominantly clear and dry weather had an adverse effect on corn harvest, the harvest and transport of sugar beets, the potato harvest, the grape and fruit harvest, and the transport of manure.

Tomatoes and peppers continued to grow up to the end of the month.

The sunny and warm September weather had a favorable effect on exotic crops, cotton, and rice.

Major damage was not observed except locally (Backi Petrovac, Biserno Ostrvo), from field mice.

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